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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/747,702	12/30/2003	Sultan Ahmad	ASZN0039-101 (A1807-2P US		
7:	590 05/31/2006		EXAMINER		
Michael A. Sanzo			LI, RUIXIANG		
Fitch, Even, Tabin & Flannery Suite 401L			ART UNIT	PAPER NUMBER	
1801 K Street, N.W.			1646		
Washington, DC 20006-1201			DATE MAILED: 05/31/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/747,702	AHMAD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ruixiang Li	1646				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) ☐ Responsive to communication(s) filed on 17 M 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.					
Disposition of Claims						
4) Claim(s) 43-67 is/are pending in the application 4a) Of the above claim(s) 48-67 is/are withdraw 5) Claim(s) 43,44 and 46 is/are allowed. 6) Claim(s) 45 and 47 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceed to the description of the descri	r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) ☑ None of: 1. ☑ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

DETAILED ACTION

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Status of Application, Amendments, and/or Claims

Applicants' amendment filed on 05/17/2006 has been entered in full. Claims 1-42 have been canceled. Claims 43-67 have been added and are pending. Claims 43-47 are under consideration. All other claims are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

Withdrawn Objections and/or Rejections

The rejection of claims 6, 7, and 41 under 35 U.S.C.§112, 2nd paragraph, as set forth in the previous office action, has been made moot by canceled claims.

The objection to the title set forth in previous office action is withdrawn in view of the amended title.

Claim Rejections under 35 U.S.C. §112, 2nd paragraph

(i). The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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(ii). Claims 45 and 47 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a substantially pure protein comprising SEQ ID NO: 3, does not reasonably provide enablement for a substantially pure protein variant of SEQ ID NO: 3. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the

invention commensurate in scope with these claims.

The factors that are considered when determining whether a disclosure satisfies enablement requirement include: (i) the quantity of experimentation necessary; (ii) the amount of direction or guidance presented; (iii) the existence of working examples; (iv) the nature of the invention; (v) the state of the prior art; (vi) the relative skill of those in the art; (vii) the predictability or unpredictability of the art; and (viii) the breadth of the claims. *Ex Parte Forman*, 230 USPQ 546 (Bd Pat. App. & Int. 1986); *In re Wands*, 858 F. 2d 731, 8 USPQ 2d 1400 (Fed. Cir. 1988).

Claim 45 is drawn to a substantially pure protein comprising SEQ ID NO: 3 and further comprising amino acid additions, deletions, or substitutions in SEQ ID NO: 3 that do not substantially alter the binding properties of the protein, whereas claim 47 is drawn to a composition comprising the protein of claim 45. The claims do not recite any structural limitations for the protein variant. While the claims recite "the binding properties of the protein", such a limitation does not define a specific biological activity because it does not clearly point out what binding property is referred. Thus, the claims are broad.

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The specification fails to provide sufficient directions and/ or working example on how to make and use the claimed variants of protein of SEQ ID NO: 3. While disclosing a radioligand assay for receptor binding (page 12), the instant specification does not disclose a single ligand that binds the instantly claimed dorsal root receptor protein of SEQ ID NO: 3. The prior art does not provide compensatory structural or correlative teachings to enable one skilled in the art to make and use the instantly claimed protein variants. One would have first to screen a ligand for the dorsal root receptor protein of SEQ ID NO: 3 before making and using a variant of the protein of SEQ ID NO: 3. It is unpredictable which compound would act as a ligand and binds the dorsal root receptor protein of SEQ ID NO: 3 because the specification does not provide any structural features of the ligand. Accordingly, it would take undue experimentation for one skilled in the art to make and use the genus of the variants of the protein of SEQ ID NO: 3.

Claim Rejections under 35 U.S.C. §112, 2nd paragraph

Claims 45 and 47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 45 is indefinite because it recites "...comprising SEQ ID NO: 3 and further comprising amino acid additions, deletions, or substitutions in SEQ ID NO: 3...". It is unclear what the metes and bounds of the limitations are. Moreover, the claim also

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recites "the binding properties of the protein". It is not clear what binding property and

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"the protein" are referred to. Claim 47 is rejected as a dependent claim.

Conclusion

Claims 43, 44, and 46 are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Advisory Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ruixiang Li whose telephone number is (571) 272-0875.

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The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00

pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Nickol, can be reached on (571) 272-0835. The fax number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, please contact the Electronic

Business Center (EBC) at the toll-free phone number 866-217-9197.

Ruiciang L.

Ruixiang Li, Ph.D.

Primary Examiner May 27, 2006

RUIXIANG LI, PH.D. PRIMARY EXAMINER